Work Order ID 86053 une 20-12 7:59:42 AM Item, ID: D212-664-107TRN Revision ID: Item Name: Crosstube Turning Detail **Start Date:** 20/06/2012 Start Qty: 1.00 **Required Date:** 04/07/2012 Req'd Qty: 1.00 Reference: Process Plan: MLJ Approvals:

SPC (Y/N):

Set Up/

Accept

**Cust Item ID: Customer:** 

Date:

Tool ID

Date:

Tool #

Plan

Code

\*N900040100\*

Reject

Number

Setup Start

Run

Accept

Qty-

Stop

Reject

Qty

Insp.

Stamp

**Work Center ID** Description **Run Hours Draw Nbr Revision Nbr** D212-664-147 Rev B(DE0) 100 0.00MORI SEIKI CNC LATHE LARGE \*100\* Mori Seiki 0.00 Memo Mori Seiki CNC Lathe Large

1-Fill tube with sand & install plugs DT8534 on both ends as per Folio FA705

Date: 17/06/20 Tooling:

2-Turn first side as per Folio FA113

Date:

3-Blend transition lines only, \*\*do not sand whole tube\*\*:

FOLIO REV: DWG REV:

\*Use mill bastard file, brush file repeatedly with file card.

\*Do not use sandpaper coarser than 320 grit.

QC1- Inspect dimensions to dimension sheet

Memo

Operation

0.00

OC

110

Sequence ID/

Quality Control

0.00

ann. C 12/06/25

W/O:			WO	RK ORDER CHANGI	ES	•			
DATE	STEP	PRO	CEDURE CHAP	IGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No	:	PAR #:	Fault Cated	NCR: Yes					
	Re	esolution:						Date: _	
NCR:		WORK ORDE	ER NON-CONFORMA	NCE (NCR	)				
DATE	STEP Description of NC			on B Sign &	Verific	cation	Approval	Approval	
	O.L.	Section A	Chief Eng	Initial Action Description Chief Eng Chief Eng		Secti	on C	Chief Eng	QC Inspector
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June-20-12 7:59:42 AM

Page 2

Item ID: D212-664-107TRN Accept \*N900040100\* Setup Start **Revision ID:** Item Name: Crosstube Turning Detail Start Date: 20/06/2012 Start Qty: 1.00 **Cust Item ID: Required Date:** 04/07/2012 Req'd Qty: 1.00 **Customer:** Reference: Run Process Plan: \_\_\_\_ Date: \_\_\_\_ **Approvals: Tooling:** Date: Stop Date: SPC (Y/N): Date: Sequence ID/ Operation Tool ID Set Up/ Tool # Plan Reject Accept Reject Insp. Work Center ID **Description Run Hours** Code Qty Oty Number Stamp 120 0.00MORI SEIKI CNC LATHE LARGE \*120\* Mori Seiki 0.00 Memo aprom.C 12/06/22 Mori Seiki CNC Lathe Large 1-Turn second side as per Folio FA705 2-Blend transition lines only, \*\*do not sand whole tube\*\*: \*Use mill bastard file, brush file repeatedly with file card. \*Do not use sandpaper coarser than 320 grit. FOLIO REV: DWG REV: 3- Remove plugs and sand 130 QC1- Inspect dimensions to dimension sheet 0.00 \*120\* OC 0.00 Memo Quality Control

manil 12/06/22

	-							
W/O:			V	ORK ORDER CHANG	ES			
DATE	STEP	PROC	CEDURE CH	ANGE	Ву	Date Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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DATE	STEP	Description of NC		Corrective Action Section		Verification	Approval	Approval
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June-20-12 7:59:42 AM

Required Date: 04/07/2012

Item ID:

D212-664-107TRN

Crosstube Turning Detail

Accept

\*N900040100\*

Setup Start

Item Name: **Start Date:** 

**Revision ID:** 

20/06/2012 Start Qty: 1.00 Reg'd Oty: 1.00

Date:

**Cust Item ID:** 

**Customer:** 

Reference:

Approvals:

Process Plan:

Date:

Tooling:

SPC (Y/N):

Date:

Date:

Run

Sequence ID/ Work Center ID Operation Description

QC8- Inspect parts - second check

Set Up/ **Run Hours**  Tool ID

Tool # Plan Code

Accept Qty

Reject Reject Qty

Insp.

Number Stamp

\*140\*

Quality Control

Memo

0.00

0.00

145

140

\*145\*

Crosstubes

Memo

0.00

0.00

Crosstubes

GRIND ONLY TRANSITION LINES SMOOTH LONGITUDE WAY.

12-7-3

150

Crosstubes Chemical Conversion

0.00

\*150\*

HandFXtube

Memo

0.00

Hand Finishing Crosstubes

1-Pressure Wash 1- Acid Etch

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W/O:			WC	RK ORDER CHANGE	S			·	
DATE	STEP	PRO	OCEDURE CHA	NGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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June-20-12 7:59:42 AM Item ID: D212-664-107TRN **Revision ID:** Item Name: Crosstube Turning Detail **Start Date:** 20/06/2012 Start Oty: 1.00 **Required Date:** 04/07/2012

Accept

\*N900040100\*

Setup Start

Req'd Qty: 1.00

**Cust Item ID: Customer:** 

Tool ID

Reference:

Approvals:

Process Plan:

QC:

Date:

\*1\*

Date:

**Tooling:** 

SPC (Y/N):

Date: Date:

Tool #

Run Start

Sequence ID/ Work Center ID

160 \*160\*

Quality Control

Operation **Description** 

Set Up/ Run Hours

0.00

0.00

Plan

Code

Accept Qty

Reject Qty

Reject

Insp. Number Stamp

170 \*170\*

Packaging Packaging

Packaging

Memo

Identify and stock in kanban rack

Location:

QC21- Final Inspection - Work Order Release

Memo

0.00

0.00

0.00

0.00

W112-07-4

Quality Control

\*120\*

180

W/O:	T		W	ORK ORDER CHANG	ES					
DATE	STEP	PRO	CEDURE CH	ANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	
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Part No		PAR #:	Fault Cat	tegory:	_ NCR: Yes	CR: Yes No DQA: Date:				
	R	esolution:	Dispositi	Disposition: QA: N/C Closed: Date:						
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DATE	STEP	Description of NC		Corrective Action Section		Verific	ation	Approval	Approval	
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### **Picklist Print**

June-20-12 7:59:47 AM

Work Order ID: 86053

\*86053\*

Parent Item:

D212-664-107TRN

\*D212-664-107TRN\*

Parent Item Name: Crosstube Turning Detail

**Start Date:** 20/06/2012

**Required Date:** 04/07/2012

Start Qty: 1.00

Required Qty: 1.00

**Comments:** 

IPP Rev:A New Issue 08-03-06 DD Verified by:ec IPP Rev B Removed polish 08.04.02 EC verified: DD

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D6019-128		Manufactured	No		<del></del>	110	Each	45.0000	- 1	1			
*D6010 12	0*								**				

110119-178

Crosstube Material

Location	Loc Qty	Loc Code
LG	45	
69803	21	
75635	24	

W/O:			WORK ORDER CHANGES									
DATE	STEP	PROCEDURE CHÂNGE					Date	Qty	Approval Chief Eng / Prod Mgr	*Approval		
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Part No:		PAR #:	Fault Category:	NCR: Yes No DQA:	Date:
	Resolution:		Disposition:	QA: N/C Closed:	Date:

NCR:		WORK ORDER NON-CONFORMANCE (NCR)										
		Description of NC		Corrective Action Section B	<del>- 1)-2'</del>	Verification	Approval	Approval				
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DART AEROSPACE LTD	Work Order:	86057 V
Description: Crosstube Assembly (205/212/412 Low Fwd)	Part Number:	D212-664-147
Inspection Dwg: D212-664-147 Rev: B		Page 1 of 2

# FIRST ARTICLE INSPECTION CHECKLIST

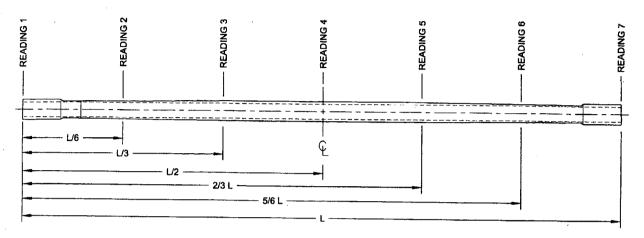
	spection Sheet wing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
	0.313	+/-0.010	.513			vern	CN L-08
	2.360	+0.005/-0.000	2-BC			1	
	2.360	+0.005/-0.000	2-361				
	2.366	+0.005/-0.000	2-366				
	2.473	+0.005/-0.000	2.475				
_	2.573	+0.005/-0.000	2-573	/			
EA	2.673	+0.005/-0.000	2.677				
SIDE	2.750	+0.005/-0.000	2.750				
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	0.313	+/-0.010	.313	_		vern	cur-o4
	2.360	+0.005/-0.000	2.363				00.000
	2.360	+0.005/-0.000	2-364				
	2.366	+0.005/-0.000	2.369		-		
	2.473	+0.005/-0.000	2.4 77				
<b>m</b>	2.573	+0.005/-0.000	2.573	~	·		
	2.673	+0.005/-0.000	2673				
SIDE	2.750	+0.005/-0.000	2.750	/			
.	2.750	+0.005/-0.000	7.70	/			
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919n.L 12/06/21

W/O:			V	ORK ORDER CHANG	ES				
DATE	STEP	PRO	OCEDURE CH	IANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No		PAR #:	Fault Ca	tegory:	_ NCR: Yes	No DQ	A:	_ Date: _	
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NCR:			WORK OR	DER NON-CONFORMA	ANCE (NC	7)			
DATE	STEP	Description of NC		Corrective Action Section		Verific	cation	Approval	Approval
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DART AEROSPACE LTD	Work Order:	9,6053
Description: Crosstube Assembly (205/212/412 Low Fwd)	Part Number:	D212-664-147
Inspection Dwg: D212-664-147 Rev: B		Page 2 of 2

## **WALL THICKNESS MEASUREMENT**



	WALL	THICKNESS	MEASUREMEN	NT (IN)	Deviation	T
Location	w1	w2	w3	w4	Δw (max-min)	TOLERANCE
READING 1 L= 0"	, 100	.128	.137	.142	-036	
READING 2	.109	.138	.145	.123	-036	
READING 3	,206	. 235	-257	.214	.051	Acceptable
READING 4	.315	.328	.328	.316	.013	0.048"
READING 5	.213	,727	.227	.215	,014	
READING 6	.122	.130	-129	124	008	
READING 7 L= ()	.115	-127	.127	12)	.012	

On 16/15 Dus mal = 0.210

Calibration	Resu	lt
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Actual Block Thickness: \_\_

100

			1	Sites	can 250 Measured Thicknes	S:
Measured by:	man.l,	Audited by:	1		Prototype Approval:	N/A
Date:	12/06/22	Date:	12-0	0-260	Date:	N/A
Rev Date	Change					

Rev	Date	Change	Revised by Approved
Α	08.11.07	New Issue (P/O D212-664-107)	KJ/EC
В	10.02.02	Dimension 126.528 was 126.53	KJ 10 11
С		Wall thickness form added	KJ DA
<u> </u>	•		113 99 1

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W/O:			W	ORK ORDER CHANG	ES					
DATE	STEP	PRO	OCEDURE CH	ANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	
Part No	:	PAR #:	Fault Cate	egory:	NCR: Yes	No DQ	 <b>А</b> :	Date:	<u> </u>	
			Disposition: QA							
NCR:			WORK ORD	DER NON-CONFORM	ANCE (NC	R)				
	OTED	Description of NC	Corrective Action Section B			Verifi	cation	Approval	Approval	
DATE	STEP	Section A	Initial Action Desc Chief Eng Chief Er		Sign Date	& Sect	ion C	Chief Eng	QC Inspector	
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Item	Qty -147	Qty -147B	Part Number	Description
!	X		D212-664-147	CROSSTUBE ASSEMBLY (205/212/412 LOW FWD)
2		x	D212-664-147B	CROSSTUBE ASSEMBLY (214 LOW FWD)
3	_ 1	1	D6019-128	CROSSTUBE
4	2	2	D2893-1	SUPPORT
5	4	4	D3595-063-450	RUBBER CUSHION
6	2	2	D3659-1	CUFF
7	4	4	MS21920-25	CLAMP (OR MS21920-26)
8	44	44	CR3212-4-06	RIVET (OR M7885/3-4-06)
9	A/R	A/R	MAGNOBOND 6398	ROCKWELL SPECIFICATION RBO-120-023 ADHESIVE (TEXTRON/BELL SPEC. 299-947-100, TYPE II, CLASS 2 ADHESIVE)
10	A/R	A/R	SIKAFLEX-241/-291	SEALANT (OR PROSEAL 890 OR MIL-S-8802 CLASS B2 SEALANT)

#### GENERAL NOTES:

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В

MATERIAL: MANUFACTURED FROM D6019-128
 FINISHED LENGTH = 125.528±0.020 (BEFORE BENDING/TRIMMING)
 FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1

PRIME INSIDE AND OUTSIDE PER DART QSI 005 4.2

PAINT OUTSIDE PER DART QSI 005 4.2
TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED.

UNITS: INCHES UNLESS OTHERWISE NOTED.

BREAK SHARP EDGES: 0.005 TO 0.010 MAX.
IDENTIFICATION: SCRIBE DART PART NUMBER 'D212-664-XXX' AND BATCH NUMBER ON INSIDE OF CUFF USING VIBRATING STYLUS.

WEIGHT: D212-664-147 = 24.2 bs (PER IIN-D212-664)
D212-664-147B = 24.2 bs (PER IIN-D212-664)
PART IS SYMMETRIC ABOUT CENTERLINE.

WHEN MACHINING TAPER, RUN CUTTER OFF PART. BLEND OUT EDGE LONGITUDINALY, TRANSITION SHOULD BE SMOOTH.

10) BEND PROGRESSIVELY WITH A MINIMUM OF 8 PASSES. MAXIMUM TUBE FLATTENING DUE TO BENDING IS 6% BASED ON O.D., EXCEPT UP TO 10% IS ALLOWED IN AREA NOTED.

11) LIQUID PENETRANT INSPECT OUTSIDE SURFACE OF CROSSTUBE PER QSI 038.

12) INSTALL D2893-1 SUPPORT USING 0.03" TO 0.06" THICK LAYER OF MAGNOBOND 6398 TO THE SURFACE OF D2893-1 THAT WILL BE IN CONTACT WITH THE CROSSTUBE PER QSI 015. LET CURE FOR 12 HOURS AFTER INSTALLATION AND PRIOR TO PACKAGING.

13) INSTALL MS21920-25 CLAMPS (OR -26) WITH D3595-063-450 RUBBER CUSHIONS TO SECURE THE D2893-1

SUPPORT ON TOP SIDE OF THE CROSSTUBE. ENSURE CLAMPS ARE OPPOSITE OF CROSSTUBE SUPPORT.

14) EXTREME CARE MUST BE TAKEN TO PROTECT THE OUTSIDE SURFACE OF THE TUBE. UNACCEPTABLE

UNACCEPTABLE.

15) TORQUE CLAMPS 80 TO 100 IN-LB. ENSURE AT LEAST 1.5 THREADS SHOWING IN SAFETY AND THAT NUT HAS NOT BOTTOMED-OUT AFTER TORQUING.

16) INSTALL D3659-1 CUFF AFTER CHEMICAL CONVERSION COAT BUT BEFORE PAINT, WITH A LAYER OF SIKAFLEX-241/-291 OR PROSEAL 890 OR MIL-S-8802 CLASS B2 SEALANT BETWEEN CUFF AND CROSSTUBE. SEAL EDGE OF CUFF TO ENSURE NO GAPS.

17) TOUCH-UP HOLES WITH CHEMICAL CONVERSION COAT.

SHOP COPY RETURNTO UNCONTROLLED COPY STRIBECT TO AMENDMENT WITHOUT NOTICE MC / 20 / 20 WORK ORDER 1/06 / 20 WITHOUT NOTICE

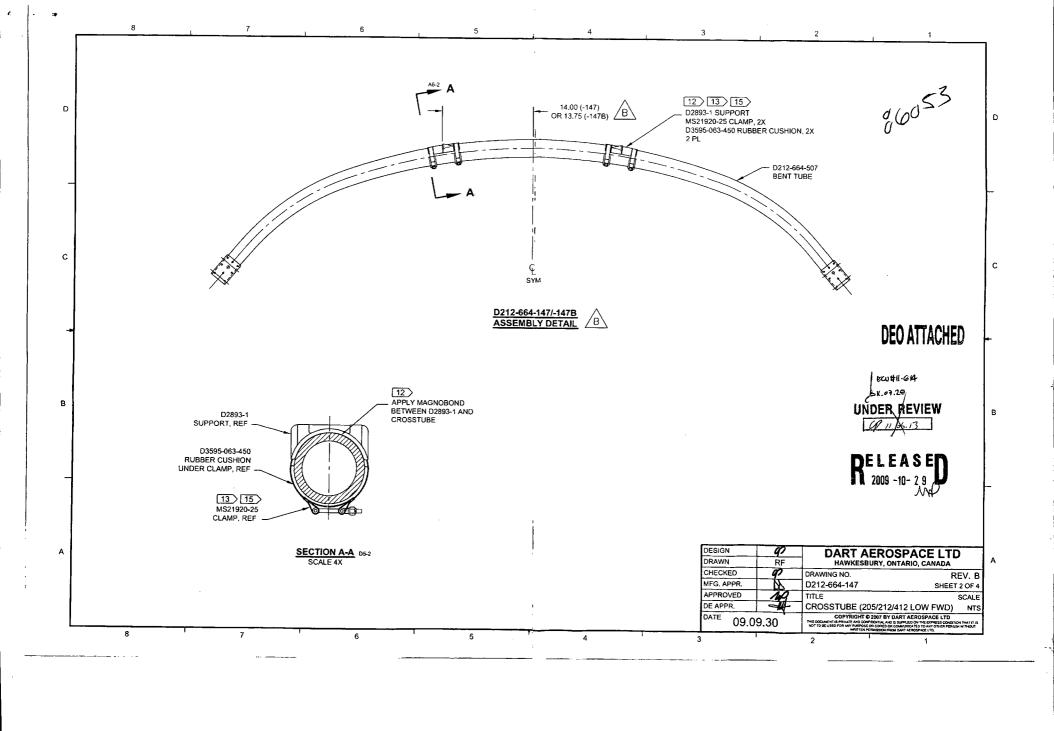
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PER ECN#11.64 LO3, 26, UNDER REVIEW

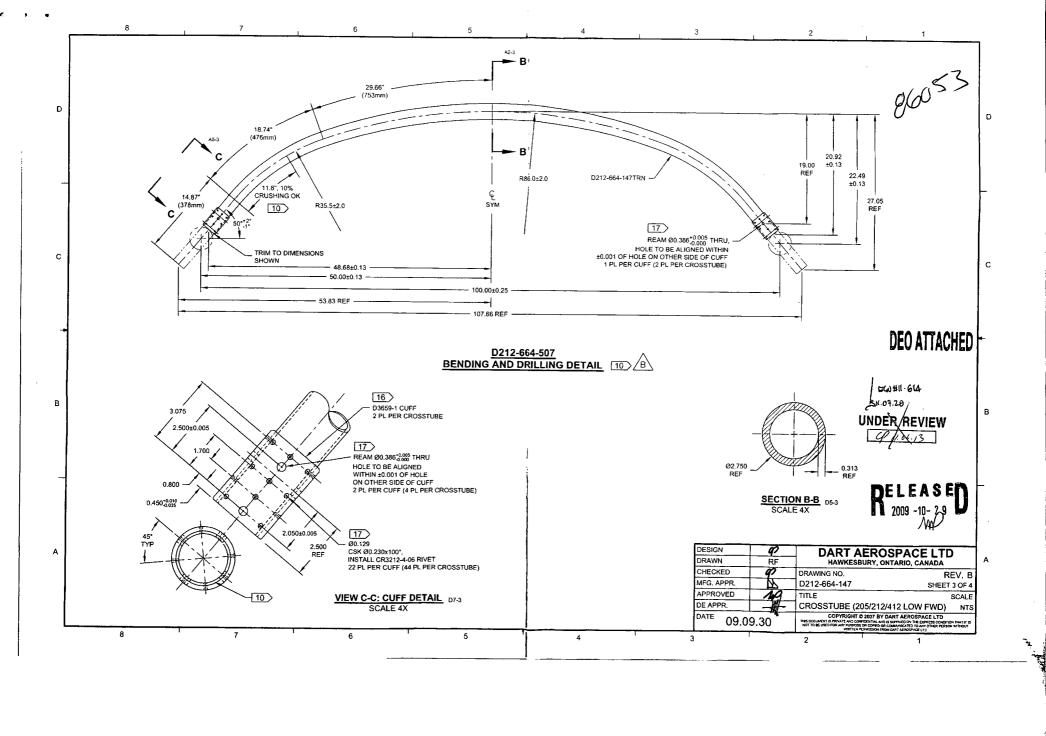
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В	REVIS CURRE	E GENERAL N ENT STANDAR	OTES/PART LIST; UPDATE TO RDS; ADD -147B (ZN C4-2, D4-2)	RF	09.09.30			
Α	NEWIS	SSUE		CP	07.07.07			
REV.			BY	DATE				
DESIGN		97	DART AEROSP	ACF	TD			
DRAWN		RF	HAWKESBURY, ONTARIO, CANADA					
CHECKE	D	P	DRAWING NO.	REV. B				
MFG. AF	PR.	77	D212-664-147	s	HEET 1 OF 4			
APPRO\	/ED	140	TITLE		SCALE			
DE APPI	R.	-#-	CROSSTUBE (205/212/412	LOW F	ND) NTS			
09.09.30			COPYRIGHT © 2007 BY DART AEROSPACE LTD  THIS DOLLARSH THE WASHERM AND IS SUPPLED ON THE STREETS CONTINUE THAT IT IS  NOT TO BE USED TO ALL MATTCH PREPARED HE FOR MAY ALL FOR A TIP.  WHITCH PREPARED HE FOR MAY ALL FOR A TIP.					

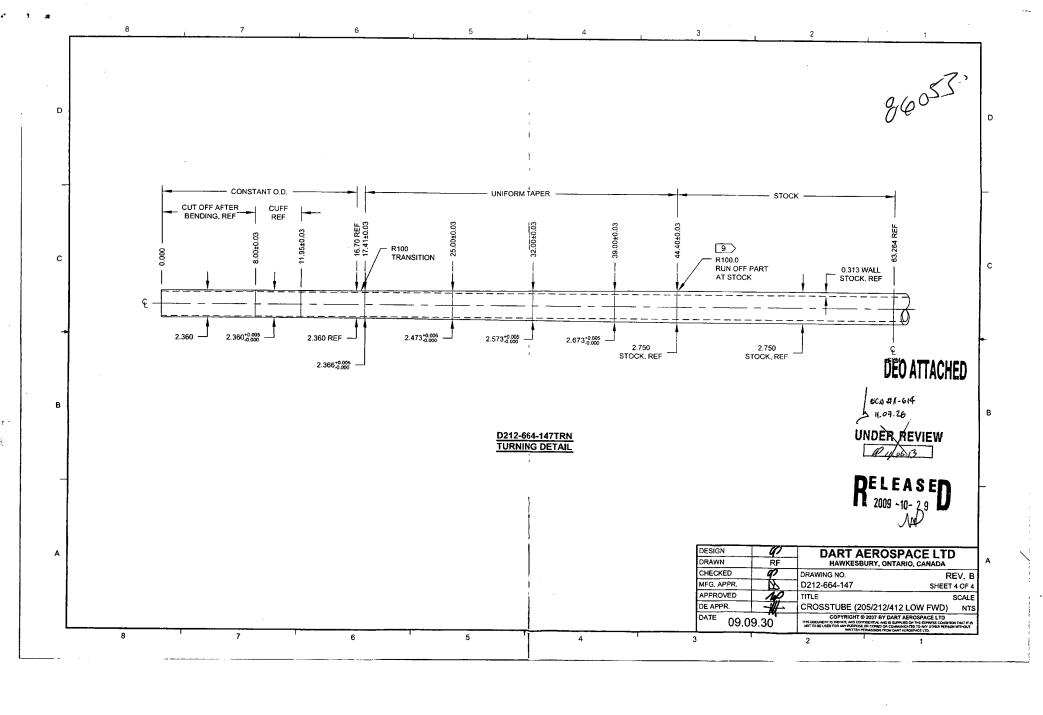
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DATE	STEP	Description of NC	Description of NC Corrective Action			Verific	fication Approval		Approval			
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Part No	:	PAR #:	Fault Categ	NCR: Yes No DQA: Date:						
	Re	esolution:	Disposition: QA: N/C Closed: Date:							
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DATE	STEP	Description of NC Corrective Action Section				Verific		Approval	Approval	
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NCR:			WORK ORDI	ER NON-CONFORMA	NCE (NCR	)			
DATE	STEP	Description of NC	Corrective Action Section B			Verific		Approval Chief Eng	Approval
	0.2.	Section A	Initial Action Description Chief Eng Chief Eng		Sign & Date				QC Inspector
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DRAWING NO.	TITLE	REV. B	DART AE	ROSPACE LTD	D.E.O. NO.	SHEET NO.	SCALE
D212-664-147	CROSSTUBE ASS'Y (			RING ORDER			NTS
DRAWN 9	CHECKED	155	MFG. APPR.	192	APPROVED W	· · · · · · · · · · · · · · · · · · ·	1 110
DATE 11.07	.15 DATE	11.07.20	DATE	11.07.21		21 DATE 11.07.21	

PURPOSE:

REPLACE MAGNOBOND WITH PROSEAL.

86053

### CHANGE:

IS:

Item	Qty -147	Qty -147B	Part Number	Description
9	A/R	A/R	PROSEAL 890 B-2	SEALANT, AMS-S-8802 CLASS B-2

### WAS:

9	A/R	A/R	MAGNOBOND 6398	ROCKWELL SPECIFICATION RBO-120-023
1			į	ADHESIVE (TEXTRON/BELL SPEC, 299-947-100.
			:	TYPE II, CLASS 2 ADHESIVE)

NOTE 12 & 15, SHEET 1 IS AMENDED AS FOLLOWS:

IS:

- 12) TO INSTALL D2893-1 SUPPORT: ABRADE MATING SURFACE OF SUPPORT AND CROSSTUBE WITH 180-GRIT SANDPAPER AND REMOVE RESIDUE WITH MEK (OR EQUIVALENT). APPLY A 0.04" TO 0.07" THICK LAYER OF PROSEAL 890 CLASS B-2 (OR AMS-S-8802 CLASS B-2) SEALANT TO MATING SURFACE OF SUPPORT.
- 15) TORQUE CLAMPS 80 TO 100 IN-LB. ENSURE AT LEAST 1.5 THREADS SHOWING IN SAFETY AND THAT NUT HAS NOT BOTTOMED-OUT AFTER TORQUING. PRIOR TO PACKAGING, RE-CHECK TORQUE ON CLAMPS AFTER PROSEAL 890 SEALANT HAS CURED FOR 72 HOURS.

### WAS:

- 12) INSTALL D2893-1 SUPPORT USING 0.03" TO 0.06" THICK LAYER OF MAGNOBOND 6398 TO THE SURFACE OF D2893-1 THAT WILL BE IN CONTACT WITH THE CROSSTUBE PER QSI 015. LET CURE FOR 12 HOURS AFTER INSTALLATION AND PRIOR TO PACKAGING.
- 15) TORQUE CLAMPS 80 TO 100 IN-LB. ENSURE AT LEAST 1.5 THREADS SHOWING IN SAFETY AND THAT NUT HAS NOT BOTTOMED-OUT AFTER TORQUING.



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